Operator: AMEREN ILLINOIS COMPANY	Operator ID#: 32513
Inspection Date(s): 9/25/2013	Man Days: 2
Inspection Unit: Hookdale Storage	
Location of Audit: Hookdale	
Exit Meeting Contact: Mike Kershaw	
Inspection Type: Standard Inspection - Record Audit	
Pipeline Safety Representative(s): Jim Watts, Valerie Schwing	
Company Representative to Receive Report: Michael Fuller	
Company Representative's Email Address: mfuller2@ameren.com	

Headquarters Address Information:	300 Liberty		
	Peoria, IL 61602		
	Emergency Phone#:		
	Fax#:		
Official or Mayor's Name:	Ron Pate		
	Phone#: (217) 424-6518		
	Email:		
Inspection Contact(s)	Title	Phone No.	
George Baron	Station Foreman Hookdale		
Mike Kershaw	Supervisor Gas Storage		
Chuck Tebbe	Quality Assurance Consultant		

Gas System Operations	Status
Gas Transporter	Ameren
Miles of Main	2.2 miles
Confirm Operator's Potential Impact Radius Calculations	201.2 feet
Annual Report (Form 7100.1-1) reviewed for the year:	Not Checked
General Comment:	•
The annual report for transmission was previously reviewed in June 2013 when the report was received at ICC Headquarters.	
Regulatory Reporting Records	Status

[191.5]	Were Telephonic Notices of Incidents reported to the NRC (800-424-8802)?	Not Applicable
General Comment:	1	•
No reportable incidents occurred at Hookdale Storage	e in 2011-2012.	
[191.15(a)]	Was a DOT Incident Report Form F7100.2 submitted within 30 days after detection of an incident?	Not Applicable
General Comment:		
No forms were required to be submitted due to no rep	ortable incidents occurring in 2011-2012.	
[191.15(b)]	Were there any supplemental incident reports when deemed necessary?	Not Applicable
General Comment:	•	
No supplemental reports were required.		
[191.23(a)]	Did the operator report Safety Related Conditions?	Not Applicable
General Comment:	1	
There were no safety related conditions at Hookdale is	n 2011-2012.	
[191.25]	Did the Operator file a Safety Related Condition Report within 5 working days of determination, but not later than 10 working days after discovery?	Not Applicable
General Comment:		
No safety related conditions reports were required to b	be filed for Hookdale Storage in 2011-2012.	
[192.16(c)]	Customer Notification: Has the operator notified each customer after the customer first receives gas at a particular location?	Not Applicable
General Comment:	ŀ	L
Customer Notification is not applicable as the Storage systems and is reviewed during the distribution audit p	Field does not directly supply any customers. This requirement is only applicable to performed at the Pawnee Training Center.	the distribution
	DRUG TESTING	Status
Refer to Drug and Alcohol Inspection Form	s and Protocols	Not Checked
General Comment:		
Staff did not review the drug and alcohol plan during to Headquarters. Staff did confirm that the EAP and dru	his audit. The plan was reviewed during a separate audit conducted with Ameren at a g and alcohol policy were displayed at the reporting site for Hookdale Storage.	their St. Louis
TE	EST REQUIREMENTS	Status
Category Comment:		
No piping was replaced or new piping was installed in	2011-2012 that required a pressure test.	
[192.517(a)][192.505,192.507,192.509,192	.511(c)] Are pressure test records being maintained for piping operating above 100 psig?	Not Applicable

	Are pressure test records being maintained for at least 5 years on piping operating below 100 psig?	Not Applicable
	UPRATING	Status
Category Comment:		
No uprating was performed at Hookdale Storage in 2011	-2012.	
[192.555][192.555]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of 30% or more SMYS?	Not Applicable
[192.557][192.557]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of less than 30% SMYS?	Not Applicable
	OPERATIONS	Status
[192.603(b)][192.605(a)]	Has the operator conducted a review of the Operations and Maintenance Manual once per yr/15 months?	Not Checked
Training Center inspection.	I is not conducted by the Storage Field Personnel. The O&M review date is confirm	
Has the operator conducted a review of the C	Operator Qualification Plan once per yr/15 months?	Not Checked
General Comment: The energiar qualification plan was not reviewed as part		
[192.603(b)][192.605(b)(3)]	of this audit. This is reviewed at the Ameren Pawnee Training Center during a sep Are construction records, maps, and operating history	
[192.603(b)][192.605(b)(3)]		Satisfactory
[192.603(b)][192.605(b)(3)] General Comment:	Are construction records, maps, and operating history	Satisfactory
[192.603(b)][192.605(b)(3)] General Comment: Staff reviewed the maps maintained at Hookdale Storage packets when piping is installed.	Are construction records, maps, and operating history available to operating personnel? e and determined they were currently up to date. Hookdale also maintains copies of	Satisfactory
[192.603(b)][192.605(b)(3)] General Comment: Staff reviewed the maps maintained at Hookdale Storage packets when piping is installed.	Are construction records, maps, and operating history available to operating personnel? e and determined they were currently up to date. Hookdale also maintains copies of the determined they be determined to determine the effectiveness of normal O&M procedures	Satisfactory of completed work
[192.603(b)][192.605(b)(3)] General Comment: Staff reviewed the maps maintained at Hookdale Storage packets when piping is installed. [192.603(b)][192.605(b)(8)] General Comment:	Are construction records, maps, and operating history available to operating personnel? e and determined they were currently up to date. Hookdale also maintains copies of the determined they be determined to determine the effectiveness of normal O&M procedures	Satisfactory of completed work
[192.603(b)][192.605(b)(3)] General Comment: Staff reviewed the maps maintained at Hookdale Storage packets when piping is installed. [192.603(b)][192.605(b)(8)] General Comment: No issues were identified during inspections performed by	Are construction records, maps, and operating history available to operating personnel? e and determined they were currently up to date. Hookdale also maintains copies of the determined they be determined they were currently up to date. Hookdale also maintains copies of the determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date.	Satisfactory of completed work
[192.603(b)][192.605(b)(3)] General Comment: Staff reviewed the maps maintained at Hookdale Storage packets when piping is installed. [192.603(b)][192.605(b)(8)] General Comment: No issues were identified during inspections performed by	Are construction records, maps, and operating history available to operating personnel? e and determined they were currently up to date. Hookdale also maintains copies of the determined they were currently up to date. Hookdale also maintains copies of the determined they were currently up to date. Hookdale also maintains copies of the determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined the	Satisfactory of completed work Satisfactory
[192.603(b)][192.605(b)(3)] General Comment: Staff reviewed the maps maintained at Hookdale Storage packets when piping is installed. [192.603(b)][192.605(b)(8)] General Comment: No issues were identified during inspections performed by the state of the state	Are construction records, maps, and operating history available to operating personnel? e and determined they were currently up to date. Hookdale also maintains copies of the determined they were currently up to date. Hookdale also maintains copies of the determined they were currently up to date. Hookdale also maintains copies of the determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined they were currently up to date. Hookdale also maintains copies of determined the	Satisfactory of completed work Satisfactory Satisfactory

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	degrade in proceure or flow rate outside normal energing	
	decrease in pressure or flow rate outside normal operating limits?	
General Comment:		
Staff reviewed the abnormal operations log sheets for 2011-20 actions were taken to correct the conditions. Actions were also	12 and observed that abnormal operations were corrected in a timely manne taken where applicable to prevent reoccurrences.	r and adequate
[192.603(b)][192.605(c)(1)(iii)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of loss of communications?	Satisfactory
General Comment:		
Review of the abnormal operation log documents indicate corre observed by field technicians.	ective actions were taken when loss of communications were reported by Ga	s Control or were
[192.603(b)][192.605(c)(1)(iv)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of operation of any safety device?	Satisfactory
General Comment:		
Review of the abnormal operation log documents indicate corre Control or when observed by field technicians.	ective actions were taken when operation of a safety device was observed ar	nd reported by Gas
[192.603(b)][192.605(c)(1)(v)]	Does the operator maintain documentation for responding to, investigating, and correcting the cause of any other foreseeable malfunction of a component, deviation from normal operation, or personnel error which may result in a hazard to persons or property?	Satisfactory
General Comment:		
Review of the abnormal operation log documents indicate corre and reported by Gas Control or when observed by field technic	ective actions were taken when any other foreseeable malfunction of a compians.	onent was observed
[192.603(b)][192.605(c)(2)]	Does the operator maintain documentation of checking variations from normal operation after abnormal operation has ended at sufficient critical locations in the system to determine continued integrity and safe operation?	Satisfactory
General Comment:		
	v ups were performed where required after taking corrective actions due to r . The follow ups were conducted to ensure the actions taken corrected the c	
[192.603(b)][192.605(c)(3)]	Does the operator maintain documentation of notifying responsible operator personnel when notice of an abnormal operation is received?	Satisfactory
General Comment:		
Review of the abnormal operation log documents indicate notifit observed. Ameren has reviewed issues with alarm priorities an	cations were made by gas control and or by field technicians when abnorma d have revised alarm priorities with gas control for Hookdale Storage.	l operations were
[192.603(b)][192.605(c)(4)]	Does the operator maintain documentation for periodically reviewing the response of operator personnel to determine the effectiveness of the procedures controlling abnormal operation and taking corrective action where deficiencies are found?	Satisfactory

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Unless otherwise noted, all code references are to 49CFR Part 192.

If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

General Comment:

Staff reviewed of the abnormal operation log documents and observed that adequate responses were initiated due to Gas Control observing the alarms at Hookdale Storage. Hookdale has made some revisions to alarm priorities due to the findings of reviews for alarm notifications received through gas control.

[192.603(b)][192.619,192.621,192.623] Is the operator maintaining documentation verifying their Maximum Allowable Operating Pressure(s)? (MAOP)

Satisfactory

General Comment:

The documentation for the Hookdale Storage MAOP is maintained by the Ameren Engineering Department in Decatur, Illinois. Hookdale maintains a letter issued by the Engineering department listing the current MAOP's for the field in the inspection book for the ICC audits and maintains a MAOP book for the station and field piping indicating the pressure ratings of piping, valves and equipment. ENEngineering has also conducted a review of this documentation to confirm the system MAOP's. Currently the field has a MAOP of 500 psig and the station piping is 850 psig.

CONTINUING SURVEILLANCE RECORDS		Status
[192.709(c)][192.613(a)]	Has the operator reviewed continuing surveillance records for class location changes, failures, leak history, corrosion, changes in cathodic protection, and other unusual operating and maintenance conditions?	Satisfactory

General Comment:

There have been no changes in class location at Hookdale. Pipeline Integrity performs annual evaluations for class location changes. Review of corrosion records indicate atmospheric corrosion was identified under piping support saddles at concrete piers on the compressor station piping. The piers were removed and the supervisor of corrosion performed piping inspections. They identified areas with atmospheric corrosion and were corrected by applying aqua shield pipe wrap material. There have been no other unusual maintenance conditions identified.

CLASS LOCATION CHANGE		Status
	Does the operator maintain documentation when the class location changes for a segment of pipe operating at a hoop stress that is more than 40% SMYS?	Not Applicable

General Comment:

There is no piping in the Hookdale Storage Field that operates at or above 40% SMYS. Calculations performed on the piping indicate the highest SMYS being 35.8%.

QUALIFICATION OF PIPELINE PERSONNEL Status

Category Comment:

Staff did not review the OQ plan utilizing the protocols during this audit as this is a separate audit performed at the Ameren Pawnee Training Center. Staff did review the qualifications for the personnel currently working at Hookdale storage. The individuals were currently qualified for the tasks performed.

Refer to operator Qualification Inspection Forms and Protocols		Not Checked
DAMAGE PRE	EVENTION RECORDS	Status
[192.709(c)][191.17(a)]	Did the operator track the number of damages per 1000 locate requests for the previous years?	Not Checked

General Comment:

Locating at the Hookdale storage field is conducted by contract locators currently under contract with Ameren. These records are maintained by the Damage Prevention Group in the Belleville Office. The damage prevention records are reviewed during a separate audit conducted at the Belleville Office. There were no third party damages at the Hookdale storage facility in 2011-2012.

Has the number of damages increased or decreased from prior year?	
General Comment:	

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No excavation damages occurred in 2011-2012.		
[192.709(c)][192.617]	Does the operator track records of accidents due to excavation damage to ensure causes of failures are addressed to minimize the recurrence?	Satisfactory
General Comment:		
There were no damages to facilities due to excavation at the	Hookdale storage facility in 2011-2012.	
[192.709(c)][192.614(c)(3)]	Does the operator provide documentation pertaining to notification of excavation, marking, positive response, and the availability and use of the one call system?	Not Checked
General Comment:		
The locate records were not reviewed during this audit as the are reviewed during a separate audit conducted on the dama	y are maintained by the Damage Prevention group at the Belleville, Illinois Ofi ge prevention group.	fice. These records
Does the operator have a Quality Assurance Profacilities?	gram in place for monitoring the locating and marking of	Yes
General Comment:		
Ameren does have a quality assurance program in place to n damage prevention group at the Belleville, Illinois Office.	nonitor the locating process. These records are reviewed during a separate at	udit performed on the
Do pipeline operators include performance meas	ures in facility locating contracts?	Yes
General Comment: Ameren has performance measures in their contracts but was damage prevention group at the Belleville, Illinois Office.	s not reviewed as part of this audit. This is reviewed during a separate audit c	onducted with the
[IL ADM. CO.265.100(b)(1)]	Was third party damage to mains involving a release of gas reported to ICC JULIE Enforcement? http://www.icc.illinois.gov/julie/	Not Applicable
General Comment:		
There were no excavation damages to report at Hookdale Sto	orage in 2011-2012.	
Has the Operator adopted applicable section of the Common Ground Alliance Best Practices?		Not Checked
General Comment:		
The adoption of the CGA best practices were not reviewed du	uring this audit. They are reviewed during the Ameren Training Center audit.	
If no, were Common Ground Alliance Best Practices discussed with Operator?		No
EMERGENCY PLANS		Status
[192.603(b)][192.615(b)(1)]	Are supervisors, responsible for emergency action, furnished copies of the latest edition of the Emergency Plan?	Satisfactory
General Comment:		
There is a current Emergency Plan located in the office at Ho	okdale Storage. The current date of the plan was June of 2013.	

Unless otherwise noted, all code references are to 49CFR Part 192. If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

		_
	appropriate operating personnel have received training to assure they are knowledgeable of emergency procedures and that the training was effective?	
General Comment:		
The Hookdale storage personnel received training on the emerg	gency plan in 2011-2012.	
[192.603(b)][192.615(b)(3)]	Has the operator maintained documentation of employee activity reviews to determine whether the procedures were effectively followed in each emergency?	Satisfactory
General Comment:		
	called out by gas control. No issues were identified during the reviews performance and completion of a root cause analysis or emergency review as defined	
[192.603(b)][192.615(c)]	Has the operator maintained documentation that the operator established and maintained liaison with appropriate fire, police and other public officials?	Not Checked
General Comment:		
This documentation is maintained by the public awareness grou awareness audit performed as a separate audit.	up at Ameren located at the Pawnee Training Center. This is reviewed durin	g the public
[192.603(b)][192.615(a)(3)]	Did the review of emergency response time intervals regarding odor/leak complaint documentation indicate adequate emergency response intervals were achieved?	Satisfactory
General Comment:		
No leak reports were received at the storage field in 2011-2012 manner.	. Response times for callouts for other emergency conditions were respond	ed to in a timely
[192.603(b)][192.615(a)(11)]	Has the operator maintained documentation of actions that were required to be taken by a controller during and emergency?	Satisfactory
General Comment:		
Review of the abnormal operation log documentation indicated alarm observed by Gas Control.	no responses were required by controllers other than notifying field personn	el to respond to an
PUBLIC AWARENE	SS PROGRAM - RECORDS	Status
Category Comment:		
The public awareness plan was not reviewed as part of this aud located in Pawnee, Illinois. These are reviewed during a separa	dit. The records for the public awareness program are maintained at the Am ate audit conducted at the Ameren Training Center.	eren Training Center
Refer to Public Awareness Program Inspection For	rms and Protocols	Not Checked
ODORIZATION OF GAS		Status
[192.709(c)][192.625(f)]	Where required, has the operator maintained documentation of odorant concentration level testing?	Not Checked

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Unless otherwise noted, all code references are to 49CFR Part 192. If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

General Comment:		
distribution systems perform odorometer tests to these checks indicate the levels are insufficient	testing on the gas leaving the storage field and being supplied into the transmission system or ensure the systems are maintaining levels of odorant detectable at 1/5 the lower explosive the storage field will increase the amount of odorant being injected during withdrawal. The the Gas Compliance System and are reviewed during a separate distribution audit.	e limit of natural gas. If
[192.709(c)][192.625(e)]	Where required, has the operator maintained documentation of odorizer tank levels?	Satisfactory
General Comment:		•
The storage field is maintaining the required do	cumentation of the odorant tank levels on a monthly basis in 2011-2012.	
PATI	ROLLING & LEAKAGE SURVEY	Status
[192.709(c)][192.705]	Does the operator maintain documentation of a patrol program as required?	Satisfactory
General Comment:		
There are no highway or railroad crossings on performed annually during the same time frame	piping in the Hookdale Storage Field. Review of the patrol and leak survey documentation is	indicates they were
[192.709(c)][192.706]	Does the operator maintain documentation of leakage survey(s) performed on a transmission pipeline?	Satisfactory
General Comment:		
Leak surveys were performed annually in May of	of 2011-2012 using a Fi unit.	
ABANDONMENT or	DEACTIVATION of FACILITIES PROCEDURES	Status
Category Comment:		
No piping was abandoned at Hookdale Storage	in 2011-2012.	
[192.603(b)][192.727(b)]	Did the operator maintain documentation demonstrating that each pipeline abandoned in place was disconnected from all sources and supplies of gas, and purged of gas?	Not Applicable
[192.603(b)][192.727(c)]	Did the operator maintain documentation demonstrating that each inactive pipeline that is not being maintained under this part was disconnected from all sources and supplies of gas; purged of gas?	Not Applicable
[192.603(b)][192.727(e)]	Did the operator maintain documentation when air was used for purging that a combustible mixture was not present after purging?	Not Applicable
[192.727(g)][192.727(g)]	Did the operator maintain documentation for each abandoned onshore pipeline facility that crosses over, under or through a commercially navigable waterway?	Not Applicable
COMPRESSOR STATION		Status
[192.709(c)][192.731(a)]	Has the operator maintained documentation of the compressor station relief devices at a minimum of 1 per year/15 months?	Satisfactory

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General Comment:		
Review of relief testing documentation indicates the reliefs in the	e compressor station were inspected as required in 2011-2012.	
[192.709(c)][192.731(c)]	Has the operator maintained documentation compressor station emergency shutdown at a minimum of 1 per year/15 months?	Satisfactory
General Comment:		
Review of the ESD system testing documentation determined the	ne system was tested as required in 2011 and 2012.	
[192.709(c)][192.736(c)]	Has the operator maintained documentation of the compressor stations – detection and alarms?	Satisfactory
General Comment:		
The gas detection and alarm systems were tested quarterly in 2	011-2012.	
PRESSURE LIMIT	TING AND REGULATION	Status
[192.709(c)][192.739(a)]	Is the operator inspecting and testing the pressure limiting and regulating stations at a minimum of 1 per year/15 months?	Satisfactory
General Comment:		
Pressure regulation for injection pressure is controlled by the coat Hookdale and was inspected as required in 2011-2012.	mpressor high discharge shutdown set point which is set and calibrated pri	or to going on injection
[192.709(c)][192.743(a)]	Is the operator inspecting pressure limiting and regulating stations for adequate capacity at a minimum of 1 per year/15 months?	Satisfactory
General Comment:		
Relief capacity calculations were reviewed as required in 2011-2	2012.	
[192.709(c)][192.743(b)]	If the operator used calculations to determine sufficient capacity, were the calculation reviews documented at a minimum of 1 per year/15 months?	Satisfactory
[192.709(c)][192.743(a),192.743(b),192.195(b)(2)]	Is overpressure protection provided by the supplier pipeline downstream of the take point?	Not Applicable
General Comment:		
The Ameren transmission pipeline that supplies gas to the stora	ge facility has the same MAOP as the Compressor station. This section is r	not applicable.
[192.709(c)][192.743(a)]	If Yes, does the operator have documentation to verify that these devices have adequate capacity?	Not Applicable
General Comment:		
The Ameren transmission pipeline that supplies gas to the stora	ge facility has the same MAOP as the Compressor station. This section is a	not applicable.
VALVE MAINTENANCE		Status
[192.709(c)][192.745(a),192.745(b)]	Did the operator inspect and partially operate transmission valves that might be required during any emergency at a	Satisfactory

	minimum of 1 per year/15 months?	
General Comment:		
The 13 emergency valves at Hookdale Storage w	ere inspected as required in 2011-2012.	
[192.709(c)][192.749]	Did the operator inspect and maintain vaults > 200 cubic feet at a minimum of 1 per year/15 months?	Not Applicable
General Comment:		
There are no vaults meeting these requirements a	t the Hookdale storage facility.	
	nvestigation Of Failures	Status
[192.709(c)][192.617]	Did the operator experience accidents or failures requiring analysis?	Not Applicable
General Comment:	,	
There were no failures in the Hookdale Storage sy	stem that required investigations.	
WELDING OF STEEL PIPE		Status
Category Comment:		
No welding was performed at Hookdale Storage in	n 2011-2013.	
[192.603(b)][192.225(b)]	Does the operator have documentation for their qualified welding procedure?	Not Applicable
[192.603(b)][192.227,192.229]	Does the operator have documentation of welder qualification documentation as required?	Not Applicable
[192.709][192.243(b)(2)]	Does the operator have documentation of NDT personnel qualification as required?	Not Applicable
[192.709][192.243(f)]	Does the operator have documentation of NDT testing performed?	Not Applicable
CORROSION CONTROL RECORDS		Status
[192.491(a)][192.491(a)]	Has the operator maintained maps or records of cathodically protected piping, cathodic protection facilities, galvanic anodes, and neighboring structures bonded to the cathodic protection system	Satisfactory
General Comment:		
Hookdale has maps indicating the location of cath	odically protected piping.	
[192.491][192.459]	Has the operator maintained documentation of examination when buried pipe was exposed?	Satisfactory
General Comment:		
One nine exam was performed on huried nining d	uring the installation of an anode on the fuel gas piping in 2011.	

[192.491][192.465(a)]	Has the operator maintained documentation of annual pipe-to-soil monitoring performed at a minimum of 1 per yr/15 months and/or isolated services or short sections of main less than 100 feet at a minimum of 10% annually?	Not Applicable
General Comment:		
There is no piping in the storage field that is inspected for le	vels of cathodic protection on a 10 year cycle. All piping is tested annually.	
[192.491][192.465(b)]	Has the operator maintained documentation of rectifier or other impressed current power sources inspections at a minimum of 6 per year/ 2 1/2 months?	Satisfactory
General Comment:		
The single rectifier for Hookdale was inspected 6 times not t	o exceed 21/2 months in 2011-2012.	
[192.491][192.465(c)]	Has the operator maintained documentation of each critical interference bond, reverse current switch, diode, etc. inspections at a minimum of 6 per year/ 2 1/2 months and/or non-critical interference bond inspections at a minimum of 1 per year/15 months?	Satisfactory
General Comment:		
There are no critical bonds at Hookdale Storage to inspect. the gas well and are tested annually.	There are non critical bonds at the well sites used to supply cathodic protection	n to the well casing at
[192.491][192.465(d)]	Has the operator taken prompt remedial actions to correct any deficiencies indicated by the monitoring?	Satisfactory
General Comment:		
Corrective action was taken by installing an anode on the fu cathodically protected during the 2010 field audit at Hookdal	el gas piping in the compressor station in March of 2011 after Staff found that ti le.	he piping was not
[192.491][192.465(e)]	Has the operator maintained documentation of unprotected pipeline surveys, inspections, or tests at a minimum of 3 years/39 months?	Not Applicable
General Comment:		
There is no unprotected piping in the Hookdale Storage facil	lity.	
[192.491][192.467(a),192.467(c),192.467(d)]	Has the operator maintained documentation of inspections or tests for electrical isolation including casings?	Not Applicable
General Comment:	•	
There are no casings in the Hookdale Storage facility.		
[192.491][192.469]	Does the operator have a sufficient number of test stations or other contact points for electrical measurement to determine the adequacy of cathodic protection?	Satisfactory
General Comment:		
The operator has a sufficient number of test stations.		

Unless otherwise noted, all code references are to 49CFR Part 192. If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

[192.491][192.471]	Has the operator maintained documentation of corrective actions taken when a test lead is no longer electrically conductive?	Satisfactory
General Comment:	•	
No issues were identified with test leads during	g 2011-2012.	
[192.491][192.473(b)]	Has the operator maintained documentation of inspections or tests to assure their cathodic protection system is not affecting adjacent underground metallic structures?	Not Applicable
General Comment:		
There are no adjacent structures to affect at He	ookdale Storage.	
[192.491][192.475(a)]	Has the operator maintained documentation of investigations or steps taken to minimize internal corrosion due to transportation of corrosive gas?	Satisfactory
General Comment:		
	sults that are analyzed by ENEngineering. For Hookdale the tests indicate a probable corros H2S levels for Hookdale were identified as low in 2011-2012.	ive condition is
[192.491][192.475(b)]	Has the operator maintained documentation of internal surface inspections performed when pipe is removed for any reason?	Not Applicable
General Comment: No piping was exposed to allow for internal ins	pections at Hookdale Storage in 2011-2012.	
[192.491]	Has the operator maintained documentation of written procedures supported by as-built drawings or other construction records?	Satisfactory
General Comment:	· · · · · · · · · · · · · · · · · · ·	
The operator maintains as built drawings of rev	visions made to the storage system.	
[192.491][192.477]	Has the operator maintained documentation of internal corrosion coupon monitoring at a minimum of 2 per year/ 7 1/2 months?	Satisfactory
General Comment:		
for conditions when corrosion may be taking pl	intenal corrosion due to no separators being utilized at the well sites. Ameren is utilizing a co lace. In 2011-2012 there was one indication in December of 2011where the corrosion rate w the corrosion probe. Tests are performed during the injection and withdrawal seasons to de	as identified to be at a
[192.491][192.479]	Has the operator maintained documentation of corrective action where atmospheric corrosion was discovered?	Satisfactory
General Comment:	•	
	2011 and the piping was inspected for corrosion. Light areas of atmospheric corrosion were kness for the MAOP of the station. Corrective actions were taken by applying Aqua Shield co	

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piping against further corrosion and the supports were revised to allow for future inspections.

[192.491][192.481]	Has the operator maintained documentation of atmospheric corrosion control monitoring at a minimum of 1 per 3 years/ 39 months?	Satisfactory
General Comment:		
Atmospheric corrosion inspections were performed as requir	red in 2011-2012.	
[192.491][192.483(a),192.483(b),192.483(c)]	Has the operator maintained documentation demonstrating that pipe removed due to external corrosion has been repaired or replaced with pipe that was coated and cathodically protected?	Not Applicable
General Comment:	<u> </u>	
No piping was removed due to external corrosion in 2011-20 was corrected by installing Aqua Shield to regain wall thickne	012. Above ground piping that was identified with external corrosion due to atmess and protect against further corrosion in 2011.	ospheric corrosion
TRAINING -	· 83 IL ADM. CODE 520	Status
[520.10(a) (1)]	Has the operator maintained documentation demonstrating that personnel have received adequate training?	Satisfactory
General Comment:	·	
Ameren is maintaining adequate documentation of training b	peing received by the storage personnel.	
[520.10(a) (2)]	Do training records include verbal instruction and/or on the job training for each job classification?	Satisfactory
General Comment:		
Ameren is maintaining documentation of on the job training f	for their apprentices.	
[520.10(b)]	Has the municipal operator maintained documentation demonstrating that personnel have received adequate training?	Not Applicable
General Comment:		
This is not applicable to this operator as this is a public utility	v not a municipal.	
[520.10(a)(5)]	Are procedures periodically updated to include new materials, new methods of operation and installation, and changes in general procedures?	Satisfactory
General Comment:		
Other than review of O&M revisions there have been no cha	nges in the processes or equipment utilized at Hookdale Storage in 2011-2012	